

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P475943

Luminaire Tested: **22GR-LD5-28-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475943
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2840.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

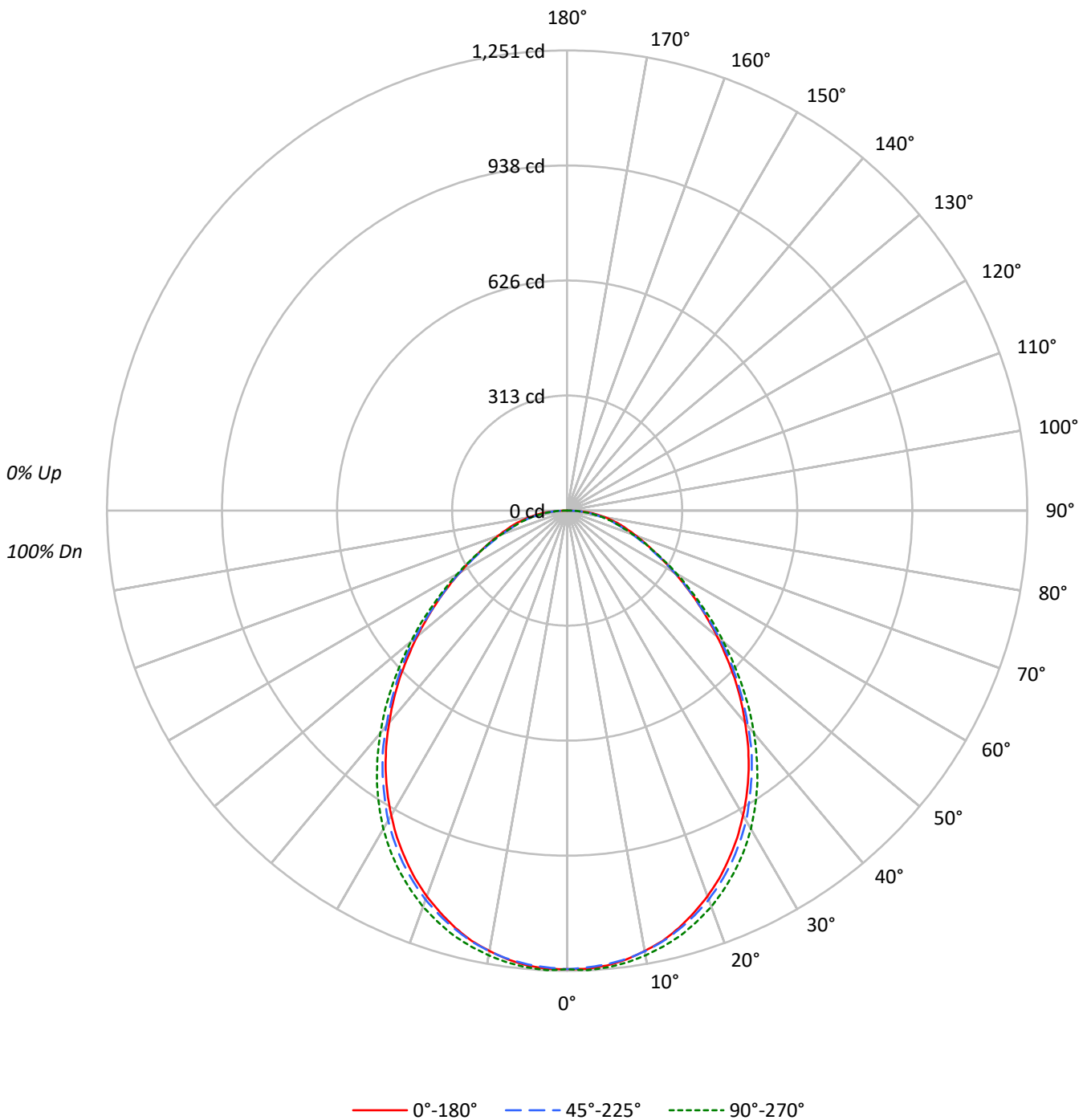
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3355	3355	3355
5°	3354	3345	3368
10°	3322	3324	3355
15°	3272	3282	3330
20°	3195	3223	3281
25°	3096	3138	3207
30°	2973	3024	3104
35°	2827	2873	2961
40°	2644	2687	2775
45°	2447	2485	2558
50°	2229	2265	2323
55°	2013	2019	2077
60°	1805	1812	1855
65°	1645	1611	1649
70°	1565	1478	1504
75°	1575	1424	1432
80°	1635	1440	1429
85°	1794	1522	1442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	4.1
10°-20°	332.7	11.7
20°-30°	487.0	17.1
30°-40°	547.6	19.3
40°-50°	505.0	17.8
50°-60°	389.2	13.7
60°-70°	256.8	9.0
70°-80°	149.4	5.3
80°-90°	54.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	937.5	33.0
0°-40°	1485.1	52.3
0°-60°	2379.3	83.8
0°-90°	2840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1242	1239	1238	1244	1247	118
15°	1174	1174	1178	1189	1195	330
25°	1043	1048	1057	1072	1080	479
35°	860	865	874	892	902	537
45°	643	644	653	666	672	495
55°	429	428	430	438	443	385
65°	258	257	253	255	259	259
75°	152	145	137	134	138	160
85°	58	57	49	46	47	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1246.7	1244.1	1243.4	1248.1	1250.7
5°	1241.5	1238.9	1238.2	1244.1	1246.7
7.5°	1231.0	1228.9	1229.6	1236.2	1239.6
10°	1215.8	1215.2	1216.5	1223.7	1227.7
12.5°	1198.1	1197.4	1200.0	1207.8	1213.2
15°	1174.4	1174.4	1178.2	1188.8	1195.4
17.5°	1145.9	1147.9	1153.8	1164.4	1171.6
20°	1115.6	1117.7	1125.5	1137.4	1145.9
22.5°	1082.0	1084.7	1092.6	1107.1	1114.4
25°	1042.6	1047.8	1057.0	1071.5	1080.0
27.5°	1001.6	1007.5	1016.1	1034.0	1041.9
30°	956.8	960.8	973.3	989.7	999.0
32.5°	909.4	913.4	923.8	943.7	951.5
35°	860.5	864.6	874.5	892.3	901.5
37.5°	807.9	811.2	823.1	836.8	846.8
40°	752.6	757.2	765.0	781.6	790.1
42.5°	698.6	700.5	709.0	725.6	732.1
45°	643.1	643.8	653.1	666.2	672.1
47.5°	585.8	587.2	598.3	606.2	612.1
50°	532.4	533.1	541.0	548.3	554.9
52.5°	479.1	479.1	483.1	490.9	499.5
55°	429.1	428.4	430.3	437.6	442.8
57.5°	381.6	380.9	383.5	388.1	392.1
60°	335.4	334.0	336.7	339.4	344.7
62.5°	294.6	295.9	292.5	296.6	300.6
65°	258.4	257.0	253.0	255.1	258.9
67.5°	227.3	225.4	218.8	220.0	224.7
70°	198.9	195.1	187.8	187.8	191.1
72.5°	173.3	169.3	160.0	160.7	162.1
75°	151.5	145.1	137.0	134.4	137.7
77.5°	127.8	122.6	115.2	113.3	114.7
80°	105.5	101.5	92.9	90.3	92.2
82.5°	83.7	80.4	70.4	68.5	69.2
85°	58.1	57.4	49.3	45.5	46.7
87.5°	31.0	31.6	25.6	23.0	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)